

Title (en)
METHOD FOR METAL PURIFICATION AND SEPARATION OF PURIFIED METAL FROM A METAL MOTHER LIQUID SUCH AS ALUMINIUM MELT

Title (de)
VERFAHREN ZUR METALLREINIGUNG UND ABTRENNUNG VON GEREINIGTEM METALL AUS EINER METALLMUTTERFLÜSSIGKEIT WIE ALUMINIUMSCHMELZE

Title (fr)
PROCÉDÉ POUR LA PURIFICATION D'UN MÉTAL ET LA SÉPARATION D'UN MÉTAL PURIFIÉ D'UN LIQUIDE MÈRE MÉTALLIQUE TEL QUE L'ALUMINIUM EN FUSION

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Application
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Abstract (en)
[origin: US7955414B2] A method and device for the purification and separation of purified metal from a metal mother liquid having a specific density and comprising one or more foreign element(s). The method includes: providing in a column device a starting material including metal crystals and a metal mother liquid including at least one foreign element; applying a temperature difference between a relatively hot zone at the upper end of the column and a relatively cool zone at the lower end of the column; a separation step wherein at least a part of the metal crystals is separated from the metal mother liquid by rising of the metal crystals to the upper surface of the metal mother liquid; and a further separation step wherein purified metal floating on the upper surface of the metal mother liquid is discharged from the column device.

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